## Quantiferon Testing in Community School Contact Investigations

Nurse Administrator

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Tuberculosis Control and Refugee Health Program

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## **Background Information**

SETTING	PUBLIC MIDDLE SCHOOL	PUBLIC HIGH SCHOOL
Total # Students*	`800	`1, 400
Demographics*	39% Hispanic, 14.5% ESOL	35% Hispanic, 7.7% ESOL
Index Case	13 years of age; Peru; infectiousness; smear status; positive PPD; entered U.S. 1/10/2014	17 years of age; Peru; infectiousness; smear status; positive QFT; entered U.S. 2/18/2012
School Contacts Identified	Yes-students, teachers, bus drivers	Yes, -students, teachers
Special Considerations	School uses a 7-class period schedule; primarily in class with the same group of students throughout the school day; average-sized classes; public school bus	class time and activities with the same group of students throughout the school day; smaller that average-sized classes; family drives to school

<sup>\*</sup>http://www.montgomeryschoolsmd.org/departments/sharedaccountability/glance/

## Contact Investigation: Screening Options

- Tuberculin Skin Test (TST)
- Quantiferon (QFT)







### **Screening Tool Selection**

- Population
- Resources
- Support
  - Department of Health and Human Services (DHS)
  - DHMH Public Health Laboratory (PHL)
  - Montgomery County Public Schools (MCPS)
- Feasibility
  - Staff
    - Availability
    - Skills
    - Experience
- New Approach



#### **External Collaborative Partners**

- Maryland Center for Tuberculosis Control and Prevention Team (CTBCP)
- Maryland DHMH Laboratory (PHL)
- Montgomery County Public Schools (MCPS)
- Local School Site Administration
- Qiagen
- Maryland Tuberculosis Control Program Jurisdictions



#### Internal Collaborative Partners

- Montgomery County DHHS
  - Public Health Officer
  - Communicable Disease & Epidemiology Senior
     Administrator
  - Epidemiologist
  - Public Information Officer
  - Tuberculosis Control Program Team
  - Immunization Program Team
  - School Health Services Team
  - Emergency Preparedness Team





# Communication with the School Community

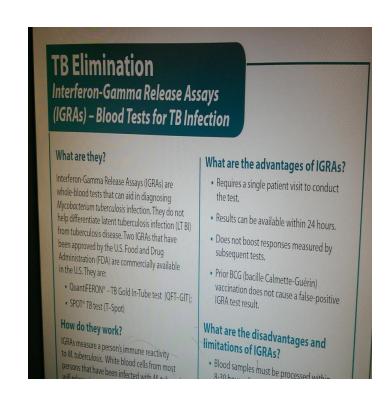
- School Administration and Staff
  - Initial meeting with leadership
  - Principal
  - Letters
    - Fact sheets
    - Options
    - Contact information
  - Phone
  - Face to face





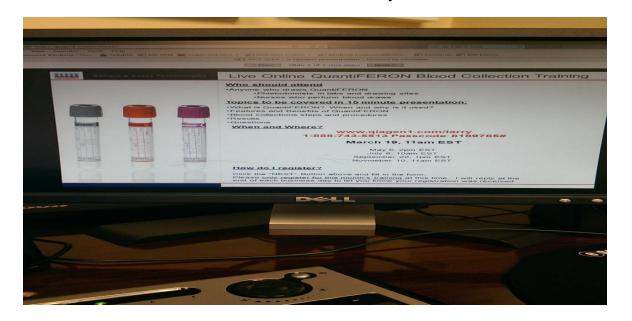
### Communication, cont'd

- Parents and Students
  - Principal
  - Letters
    - Fact Sheets
    - Options
    - Contact Information
  - Face to face
  - Connect Ed



### Logistics

- Incident Command Services (ICS)- Like Model
  - Task specific staff assignment
  - Skills and ability
  - Structured work flow
  - Focus on efficiency (estimate length of time for each blood draw)







#### Logistics

- Preparation
- Initial meeting with site administration
- Site visit by logistics team
- Location at site
- Set-up design
- Supplies
- Documentation





#### Logistics

- Consent
  - Forms with signature
  - Phone
- Communication of Results
- Follow up with parents and students





## Successes and Challenges

What Worked Well	What Were Some Challenges
Collaboration	Collaboration
ICS	Space/Lighting
Coordination	Resources
Planning and training	Consent
Communication	Follow up
Logistics	Supervision
Specimen integrity and transport	Emergency plan
Understanding School policy and guidelines	Snacks/water
92% tested at HS	76% tested at MS
Evaluation	Media coverage

#### Outcomes

Outcome	Public Middle School	Public High School
# Identified	196	149
# Screened (single-round)	156	143
# Positive	3	4
# Foreign-born Positive	3	4
# Completed TLTBI	2	2
# Declined TLTBI (total)	1	2



#### Outcomes

SETTING	PUBLIC MIDDLE SCHOOL	PUBLIC HIGH SCHOOL
Total # Students*	`800	`1, 400
Total # Identified	196	149
Percent of Identified Tested/Evaluated	76% Tested	92% Tested
Total # Tested Positive	3	4
Total # Completed TLTBI	2	2



#### Recommendations

- Screening tool selection
- ICS model
- Resources and support
- Communication
- Collaboration
- Preparation
- Consent
- Specimen transport
- Biohazard waste disposal
- Plan for the unexpected!
- Flexibility
- Consider population



#### Thank You!

Please use the microphone when asking questions

